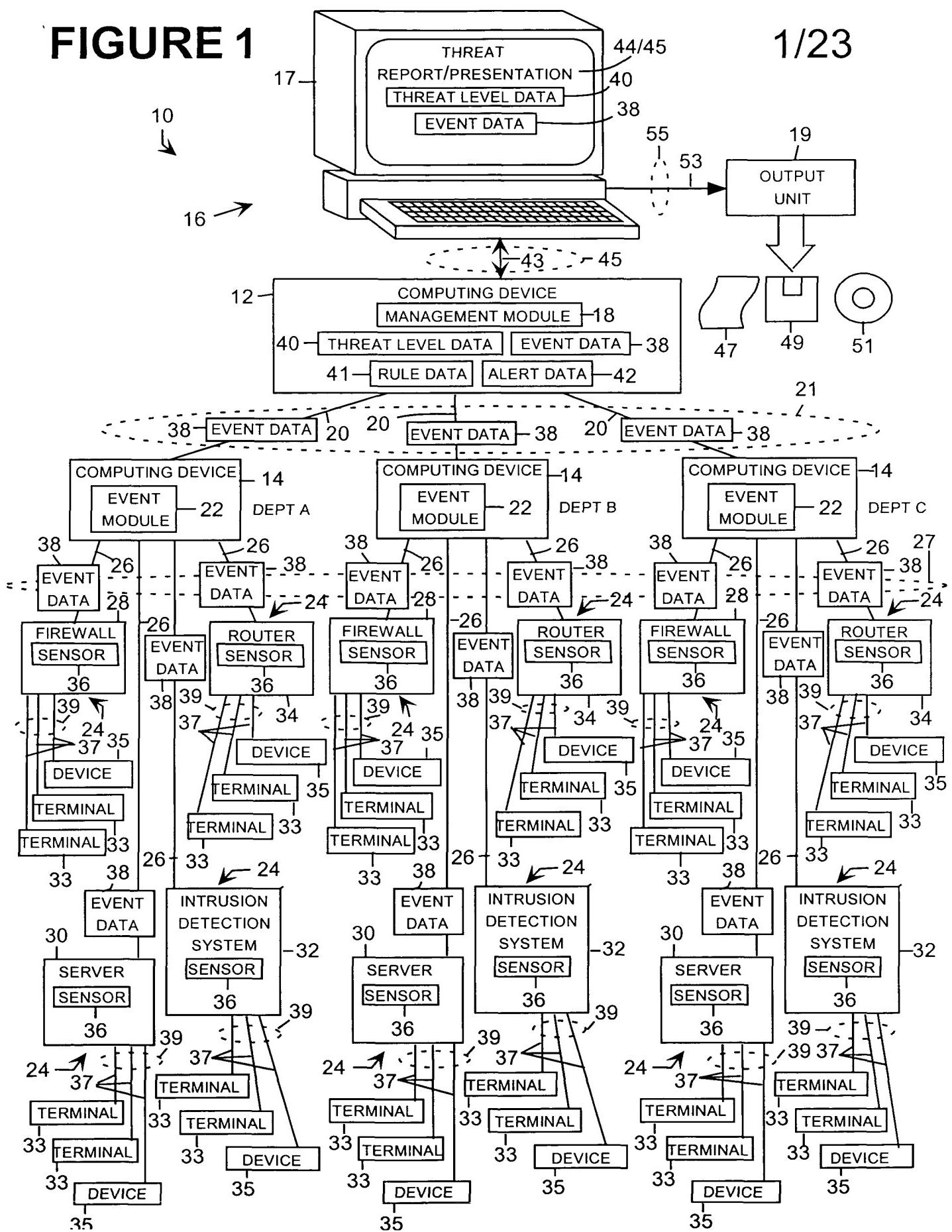


FIGURE 1

1/23



2/23

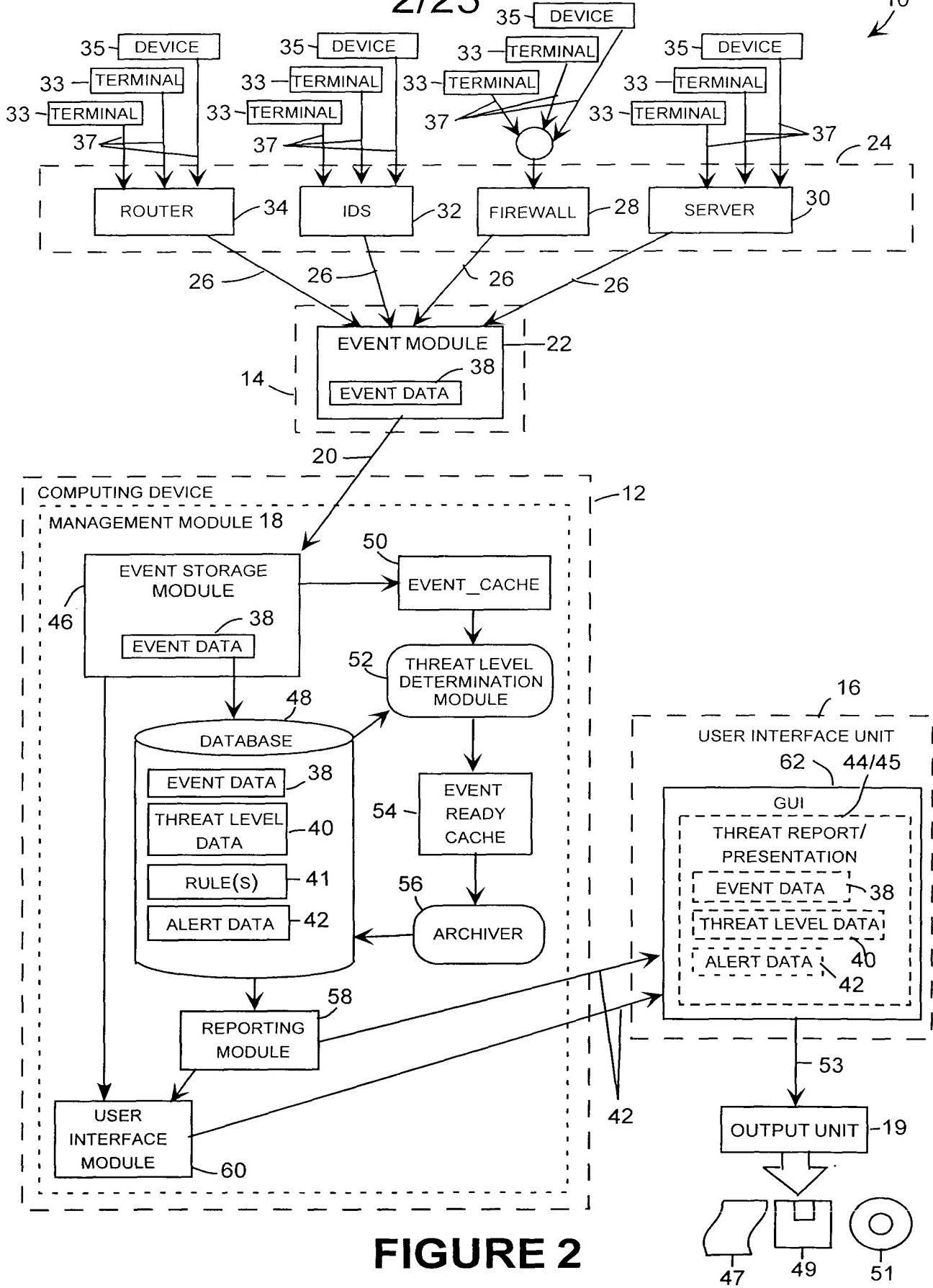


FIGURE 2

SINGLE MANAGEMENT MODULE AND
MULTIPLE EVENT MODULES

3/23

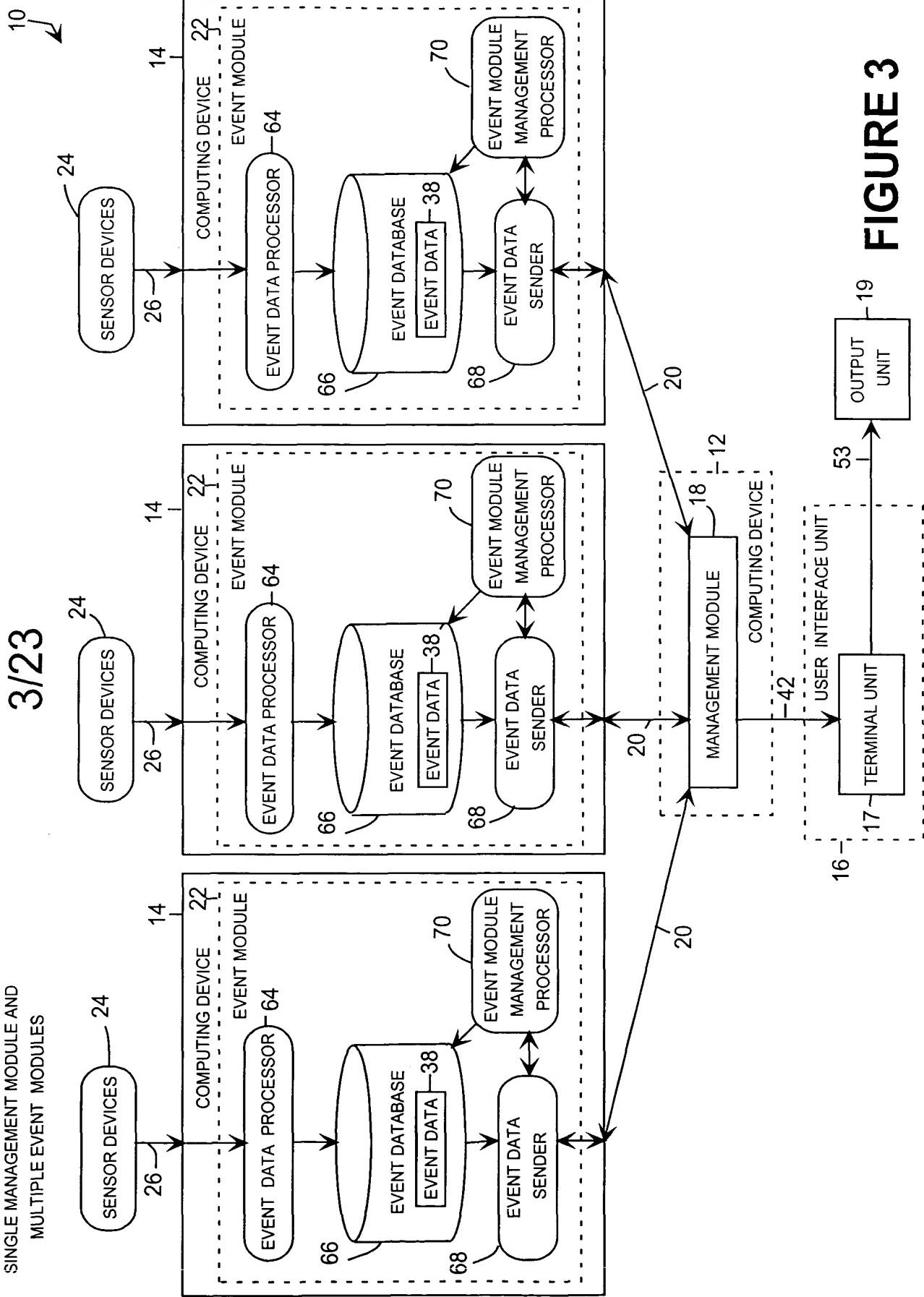


FIGURE 3

SINGLE MANAGEMENT MODULE AND
REDUNDANT EVENT MODULES

4/23

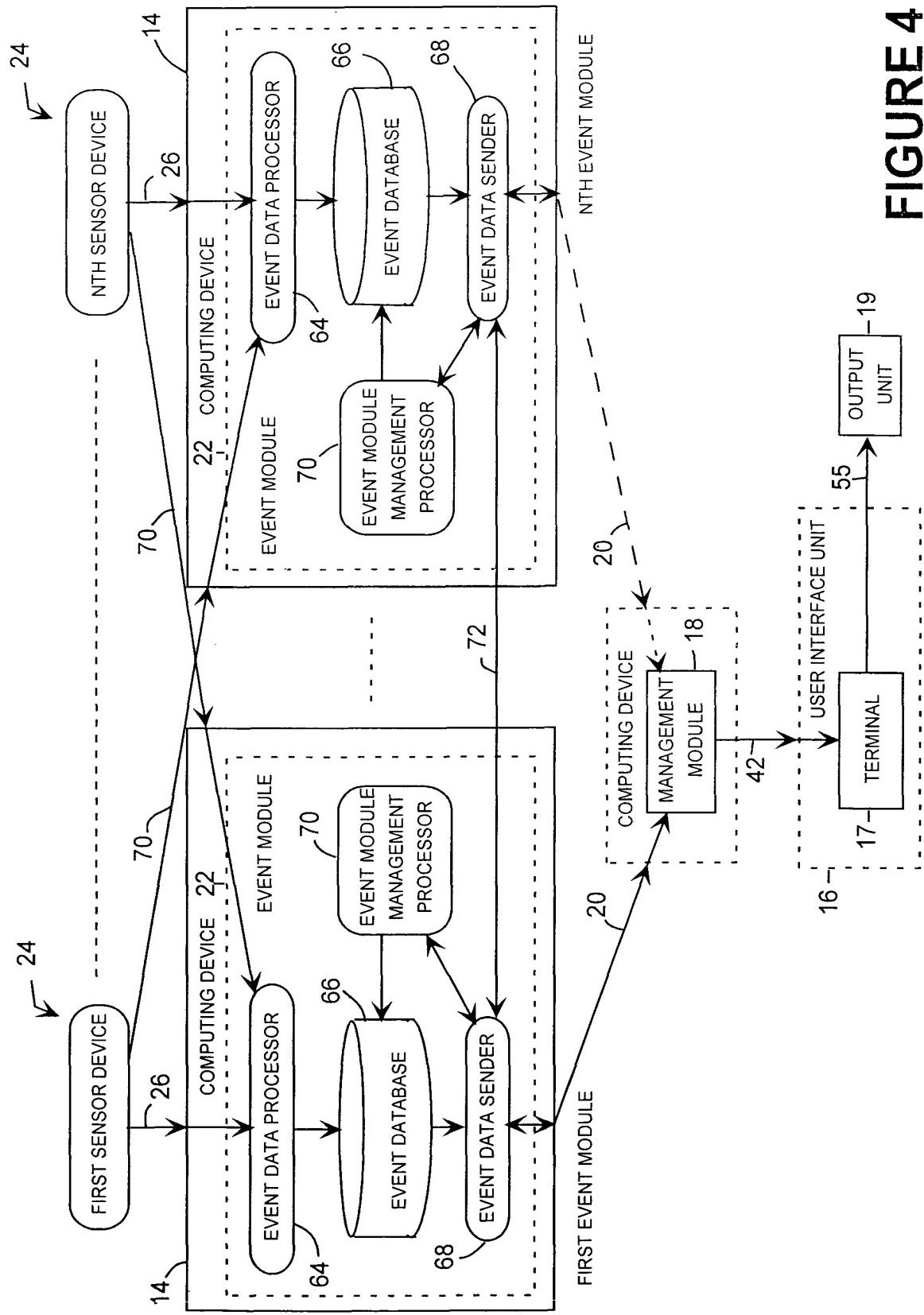
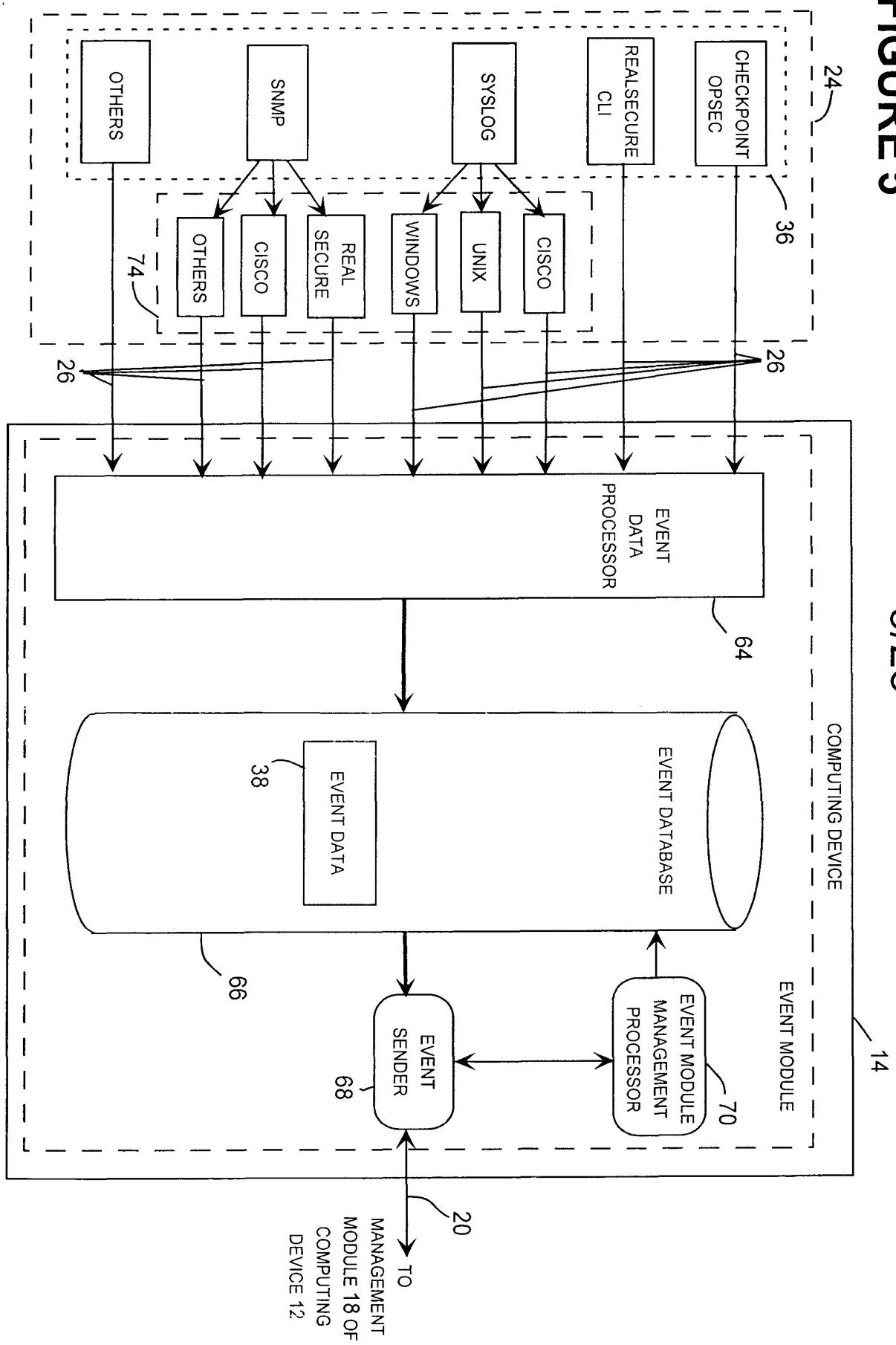


FIGURE 4

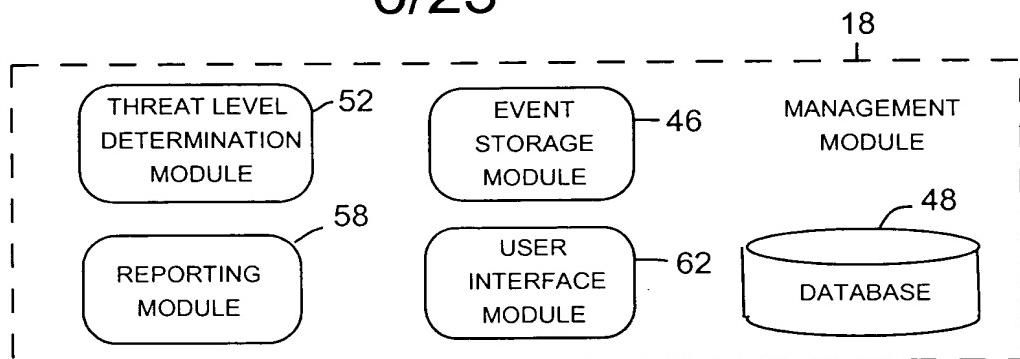
FIGURE 5

5/23

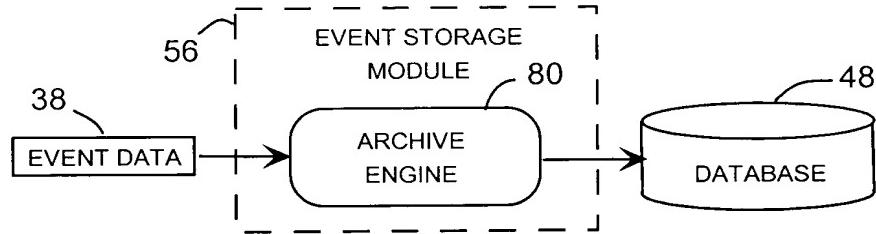


6/23

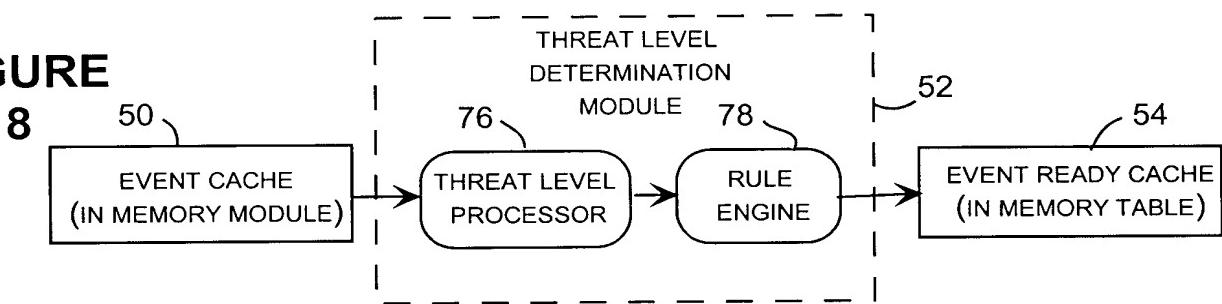
**FIGURE
6**



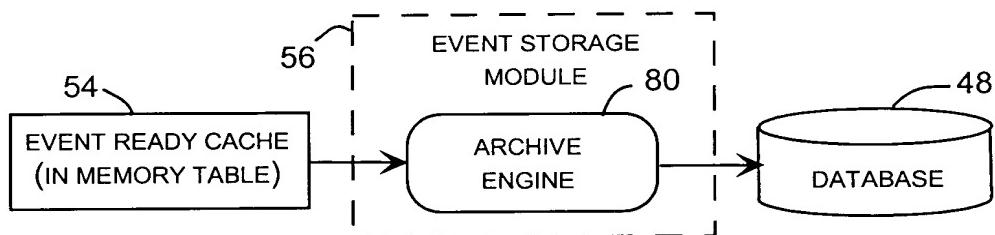
**FIGURE
7**

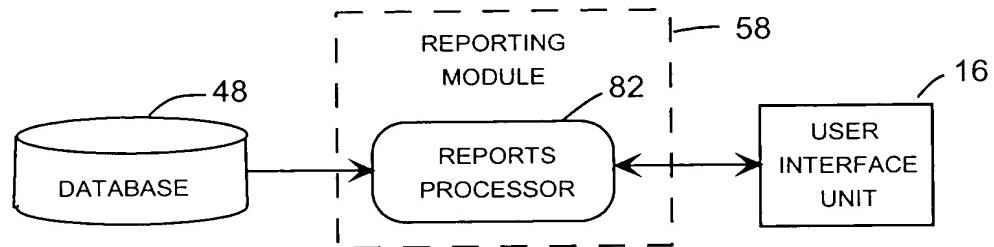
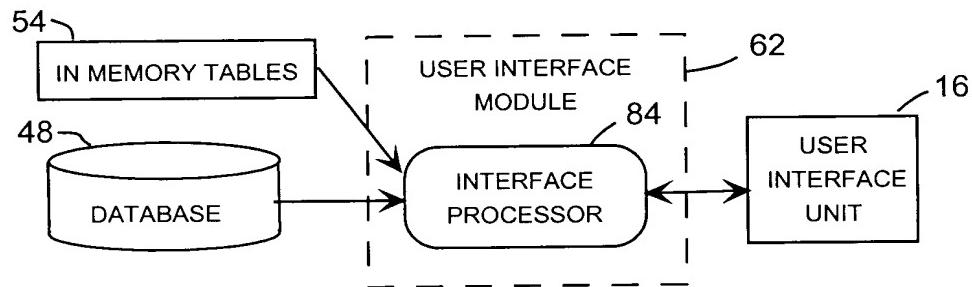


**FIGURE
8**



**FIGURE
9**



**FIGURE
10****FIGURE
11**

8
23

FIGURE 12

四

19

Top Security Findings		Top Threats		Tickets	
Severity	Description	Severity	Description	Owner	Date
High	Malicious Software	High	DDoS Attacks	John Doe	2023-10-05 09:23:12
Info	Insufficient Logging	Info	Network Anomalies	Jane Smith	2023-10-05 10:12:43

86

四

1

-
62

100

1247

三

1

11

12

11

The figure displays a map of the United States with county boundaries. A network of points is plotted across the country, with lines connecting them to form a grid-like pattern. Major cities like New York, Chicago, and Los Angeles are visible as points. The map also shows state boundaries and labels for states like California, Texas, and Florida. In the top right corner, there is a legend box containing the following items:

- Security Domain Definition
- Network & Node
- Watchdog Definition
- Board Page
- Device Management
- Device Status
- Located in the Controller
- Localized Control
- Localized Monitoring
- Localized Configuration

18

七

9/23

FIGURE 13

Initial Deployment									
Subsequent Deployment									
Index	Date	Time	Location	Event Type	Event Description	Event ID	Event Type	Event Description	Event ID
114	11/6	18:120							
115	11/6	18:122							
116	11/6	18:124							
117	11/6	18:126							
118	11/6	18:128							
119	11/6	18:130							
120	11/6	18:132							
121	11/6	18:134							
122	11/6	18:136							
123	11/6	18:138							
124	11/6	18:140							
125	11/6	18:142							
126	11/6	18:144							
127	11/6	18:146							
128	11/6	18:148							
129	11/6	18:150							
130	11/6	18:152							
131	11/6	18:154							
132	11/6	18:156							
133	11/6	18:158							
134	11/6	18:160							
135	11/6	18:162							
136	11/6	18:164							
137	11/6	18:166							
138	11/6	18:168							
139	11/6	18:170							
140	11/6	18:172							
141	11/6	18:174							
142	11/6	18:176							
143	11/6	18:178							
144	11/6	18:180							
145	11/6	18:182							
146	11/6	18:184							
147	11/6	18:186							
148	11/6	18:188							
149	11/6	18:190							
150	11/6	18:192							
151	11/6	18:194							
152	11/6	18:196							
153	11/6	18:198							
154	11/6	18:200							
155	11/6	18:202							
156	11/6	18:204							
157	11/6	18:206							
158	11/6	18:208							
159	11/6	18:210							
160	11/6	18:212							
161	11/6	18:214							
162	11/6	18:216							
163	11/6	18:218							
164	11/6	18:220							
165	11/6	18:222							
166	11/6	18:224							
167	11/6	18:226							
168	11/6	18:228							
169	11/6	18:230							
170	11/6	18:232							
171	11/6	18:234							
172	11/6	18:236							
173	11/6	18:238							
174	11/6	18:240							
175	11/6	18:242							
176	11/6	18:244							
177	11/6	18:246							
178	11/6	18:248							
179	11/6	18:250							
180	11/6	18:252							
181	11/6	18:254							
182	11/6	18:256							
183	11/6	18:258							
184	11/6	18:260							
185	11/6	18:262							
186	11/6	18:264							
187	11/6	18:266							
188	11/6	18:268							
189	11/6	18:270							
190	11/6	18:272							
191	11/6	18:274							
192	11/6	18:276							
193	11/6	18:278							
194	11/6	18:280							
195	11/6	18:282							
196	11/6	18:284							
197	11/6	18:286							
198	11/6	18:288							
199	11/6	18:290							
200	11/6	18:292							
201	11/6	18:294							
202	11/6	18:296							
203	11/6	18:298							
204	11/6	18:300							
205	11/6	18:302							
206	11/6	18:304							
207	11/6	18:306							
208	11/6	18:308							
209	11/6	18:310							
210	11/6	18:312							
211	11/6	18:314							
212	11/6	18:316							
213	11/6	18:318							
214	11/6	18:320							
215	11/6	18:322							
216	11/6	18:324							
217	11/6	18:326							
218	11/6	18:328							
219	11/6	18:330							
220	11/6	18:332							
221	11/6	18:334							
222	11/6	18:336							
223	11/6	18:338							
224	11/6	18:340							
225	11/6	18:342							
226	11/6	18:344							
227	11/6	18:346							
228	11/6	18:348							
229	11/6	18:350							
230	11/6	18:352							
231	11/6	18:354							
232	11/6	18:356							
233	11/6	18:358							
234	11/6	18:360							
235	11/6	18:362							
236	11/6	18:364							
237	11/6	18:366							
238	11/6	18:368							
239	11/6	18:370							
240	11/6	18:372							
241	11/6	18:374							
242	11/6	18:376							
243	11/6	18:378							
244	11/6	18:380							
245	11/6	18:382							
246	11/6	18:384							
247	11/6	18:386							
248	11/6	18:388							
249	11/6	18:390							
250	11/6	18:392							
251	11/6	18:394							
252	11/6	18:396							
253	11/6	18:398							
254	11/6	18:400							
255	11/6	18:402							
256	11/6	18:404							
257	11/6	18:406							
258	11/6	18:408							
259	11/6	18:410							
260	11/6	18:412							
261	11/6	18:414							
262	11/6	18:416							
263	11/6	18:418							
264	11/6	18:420							
265	11/6	18:422							
266	11/6	18:424							
267	11/6	18:426							
268	11/6	18:428							
269	11/6	18:430							
270	11/6	18:432							
271	11/6	18:434							
272	11/6	18:436							
273	11/6	18:438							
274	11/6	18:440							
275	11/6	18:442							
276	11/6	18:444							
277	11/6	18:446							
278	11/6	18:448							
279	11/6	18:450							
280	11/6	18:452							
281	11/6	18:454							
282	11/6	18:456							
283	11/6	18:458							
284	11/6	18:460							
285	11/6	18:462							
286	11/6	18:464							
287	11/6	18:466							
288	11/6	18:468							
289	11/6	18:470							
290	11/6	18:472							
291	11/6	18:474							
292	11/6	18:476			</				

10/23

FIGURE 14

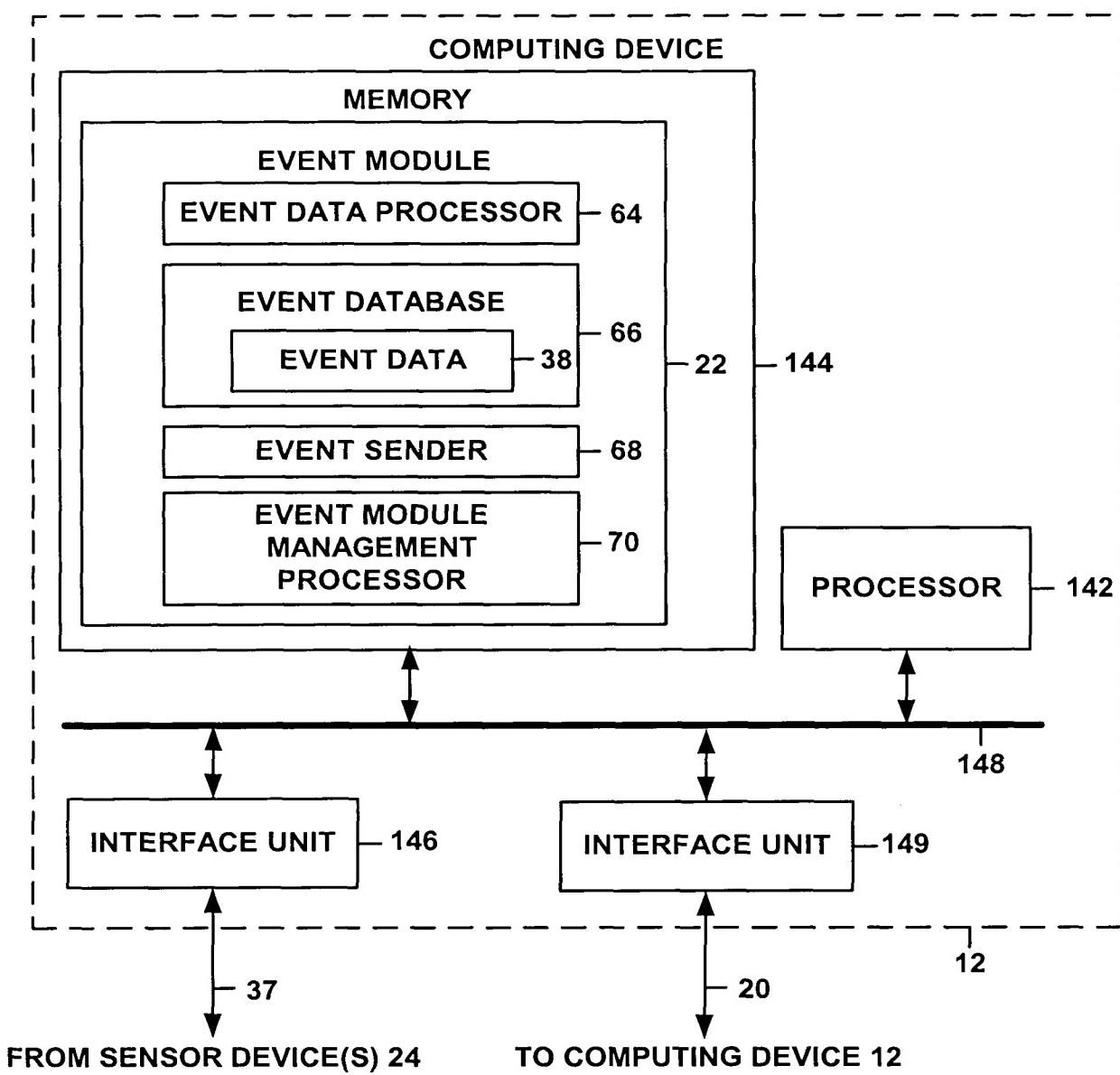


FIGURE 15

PROCESSING OF EVENT DATA BY EVENT MODULE

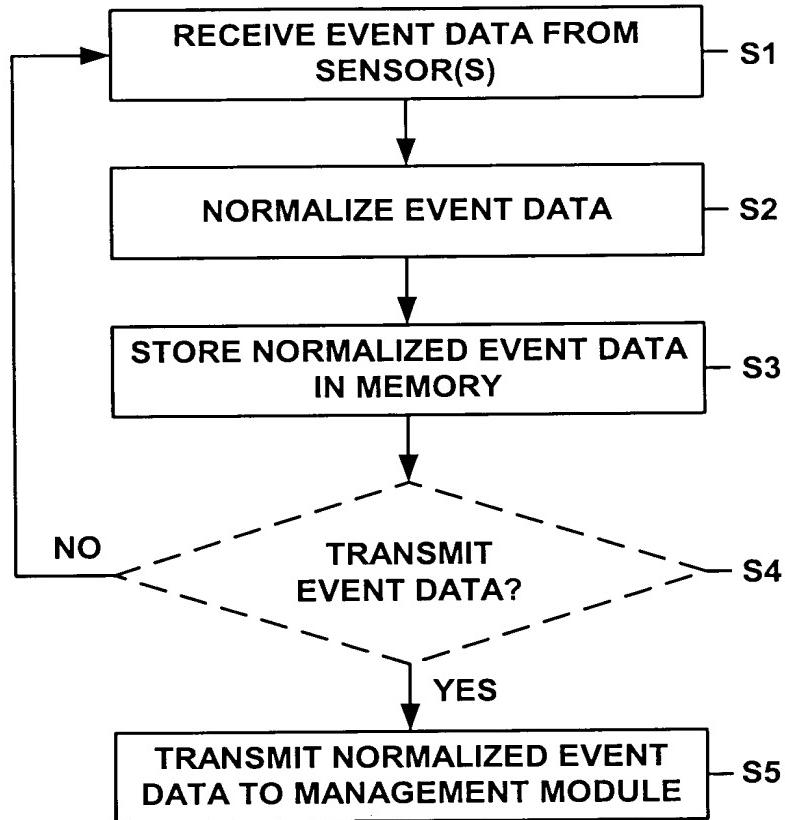


FIGURE 16

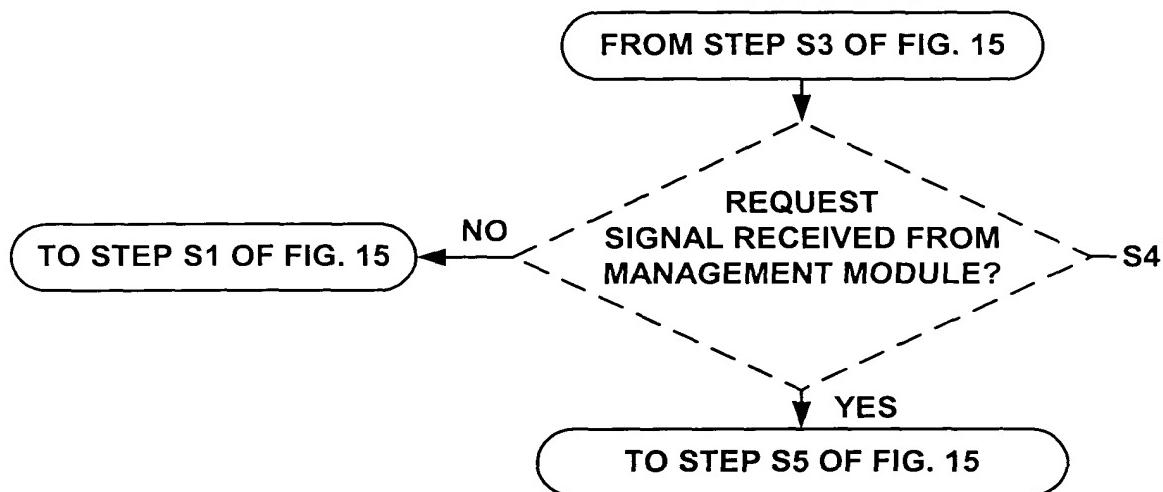


FIGURE 17

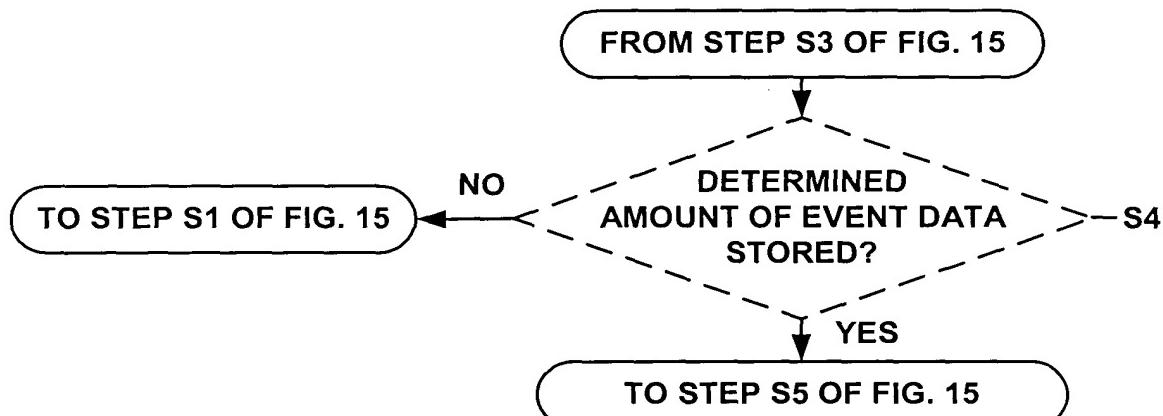
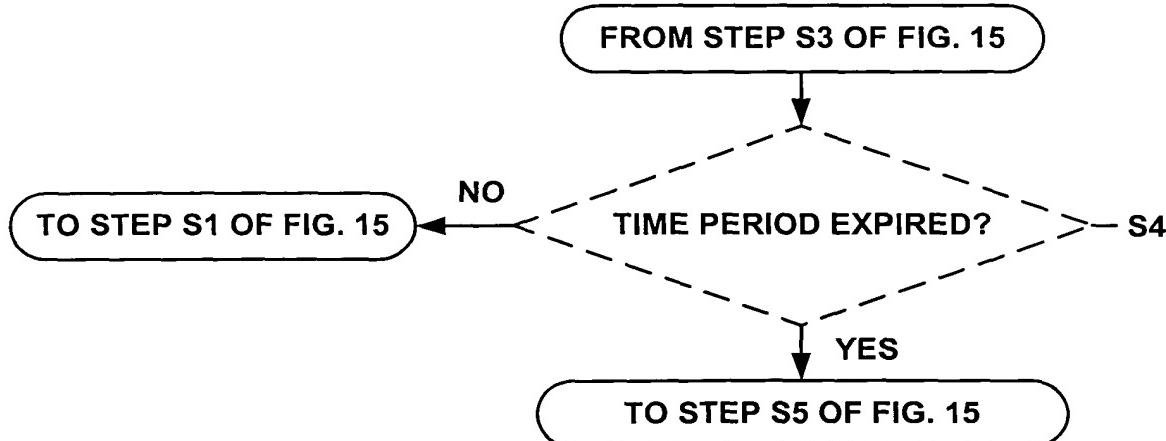


FIGURE 18



13/23
FIGURE 19

COMPUTING DEVICE

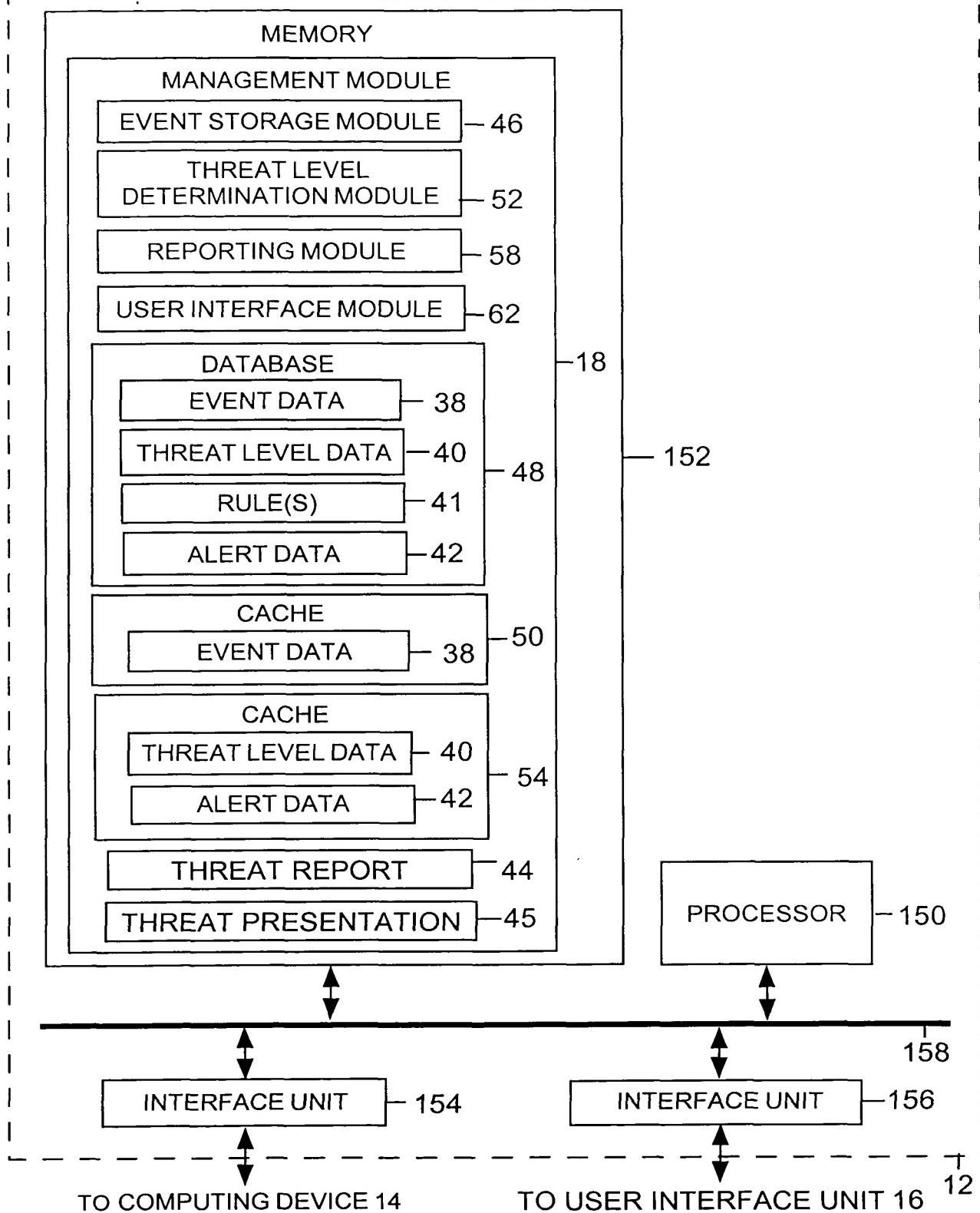
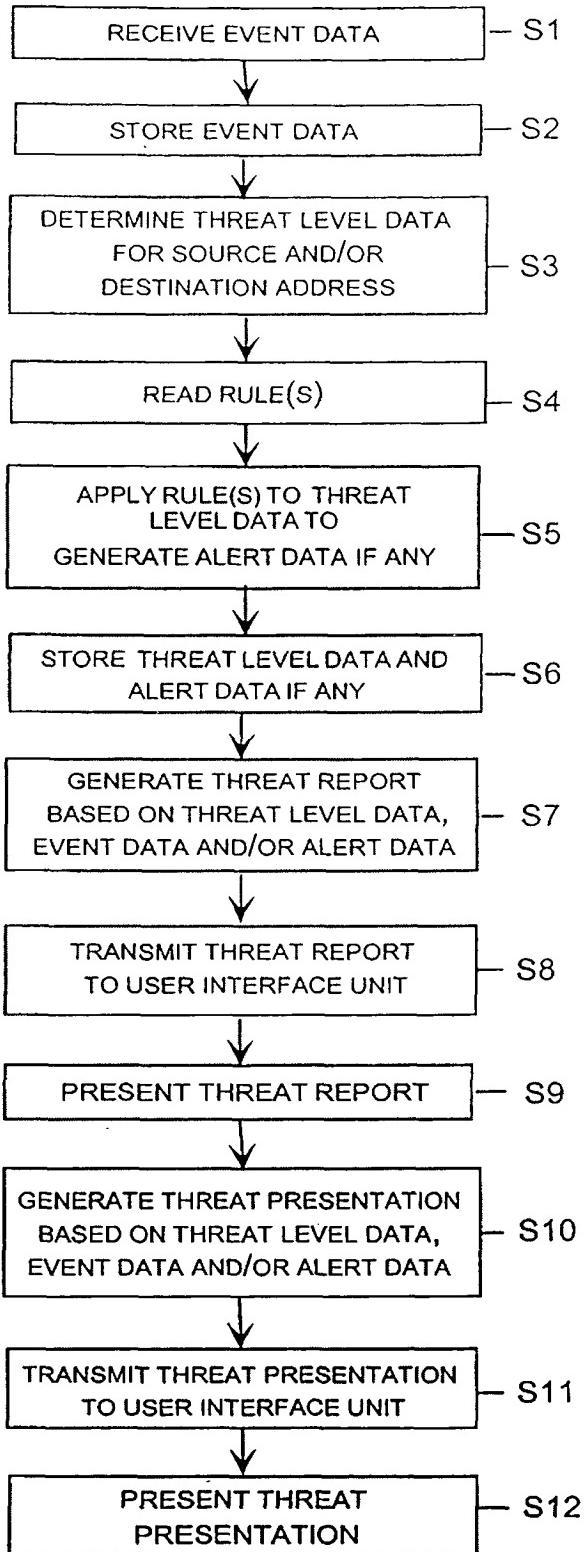


FIGURE 20

15/23

FIGURE 21

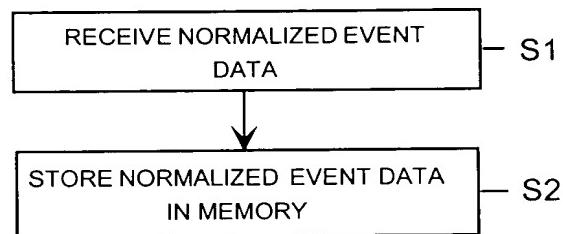
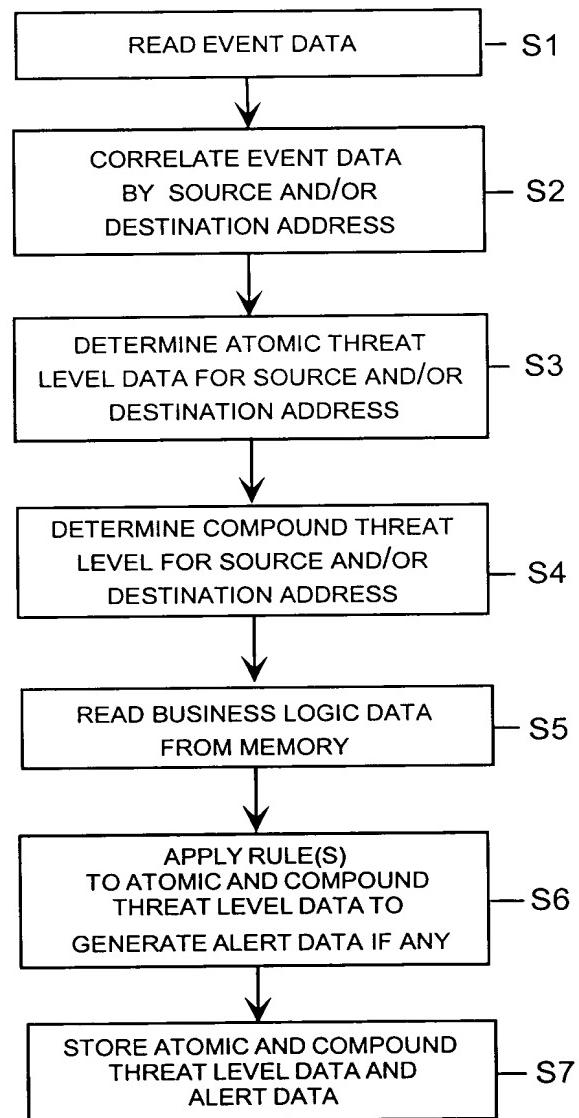


FIGURE 22



16/23

FIGURE 23

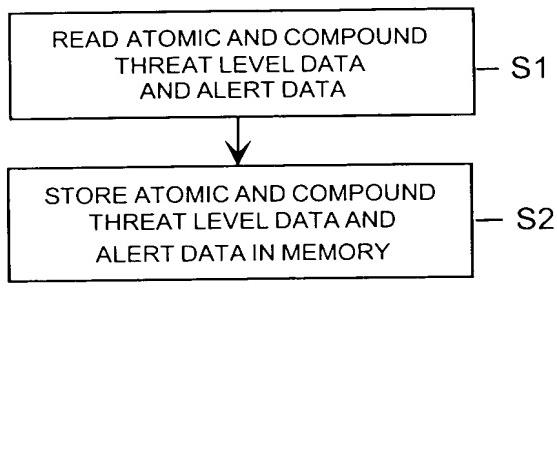


FIGURE 24

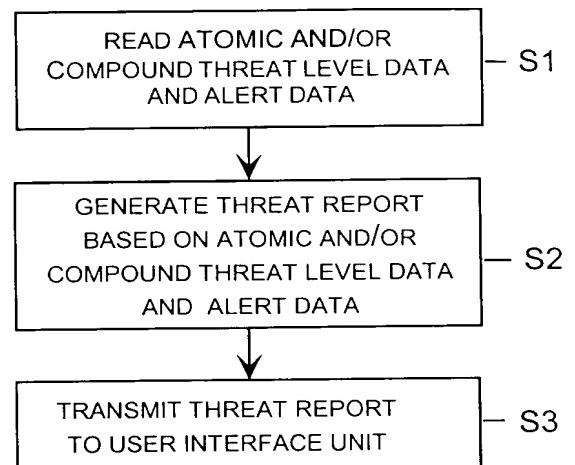
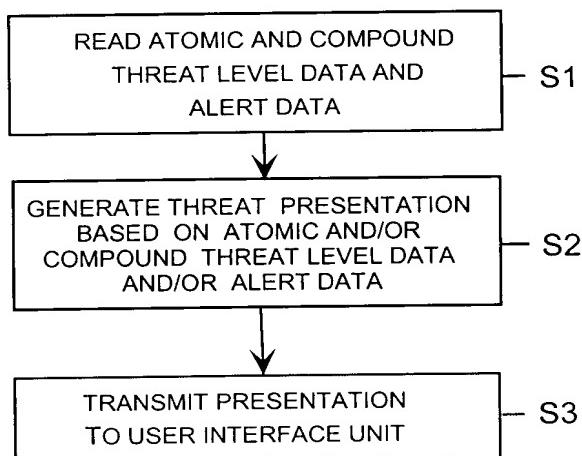
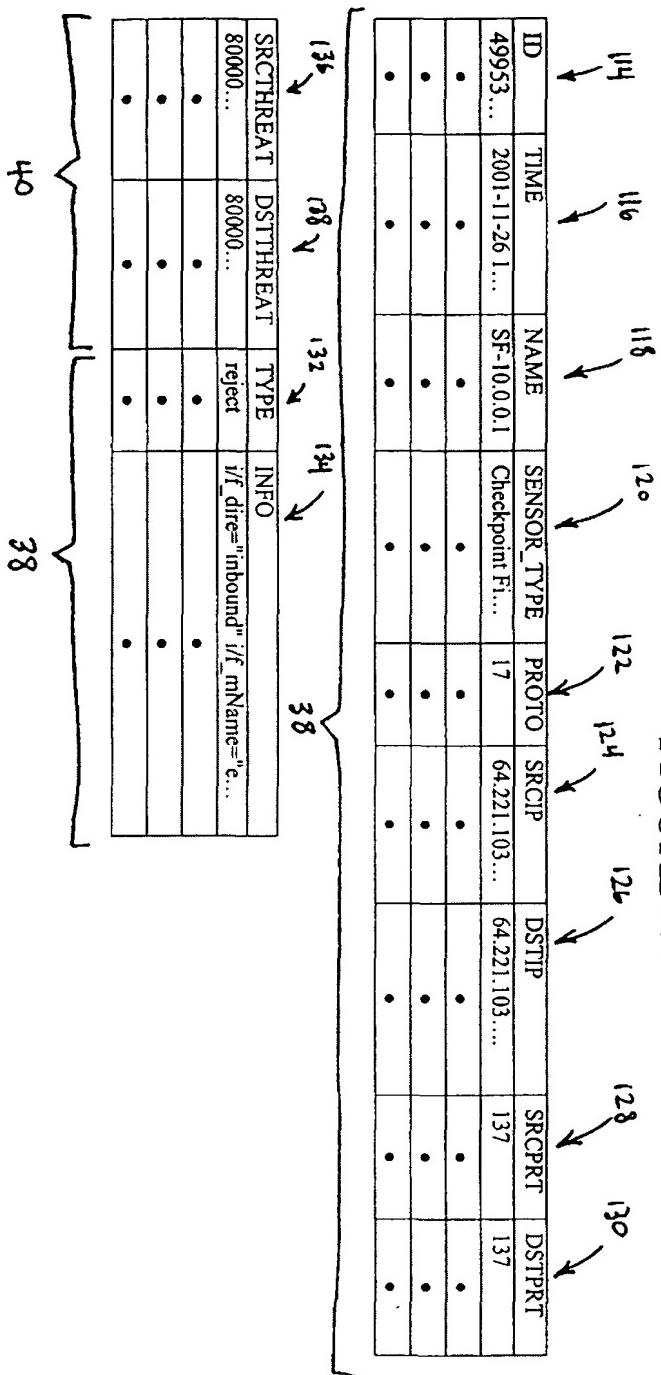


FIGURE 25



17/23

FIGURE 26



40

38

18/23

FIGURE 27

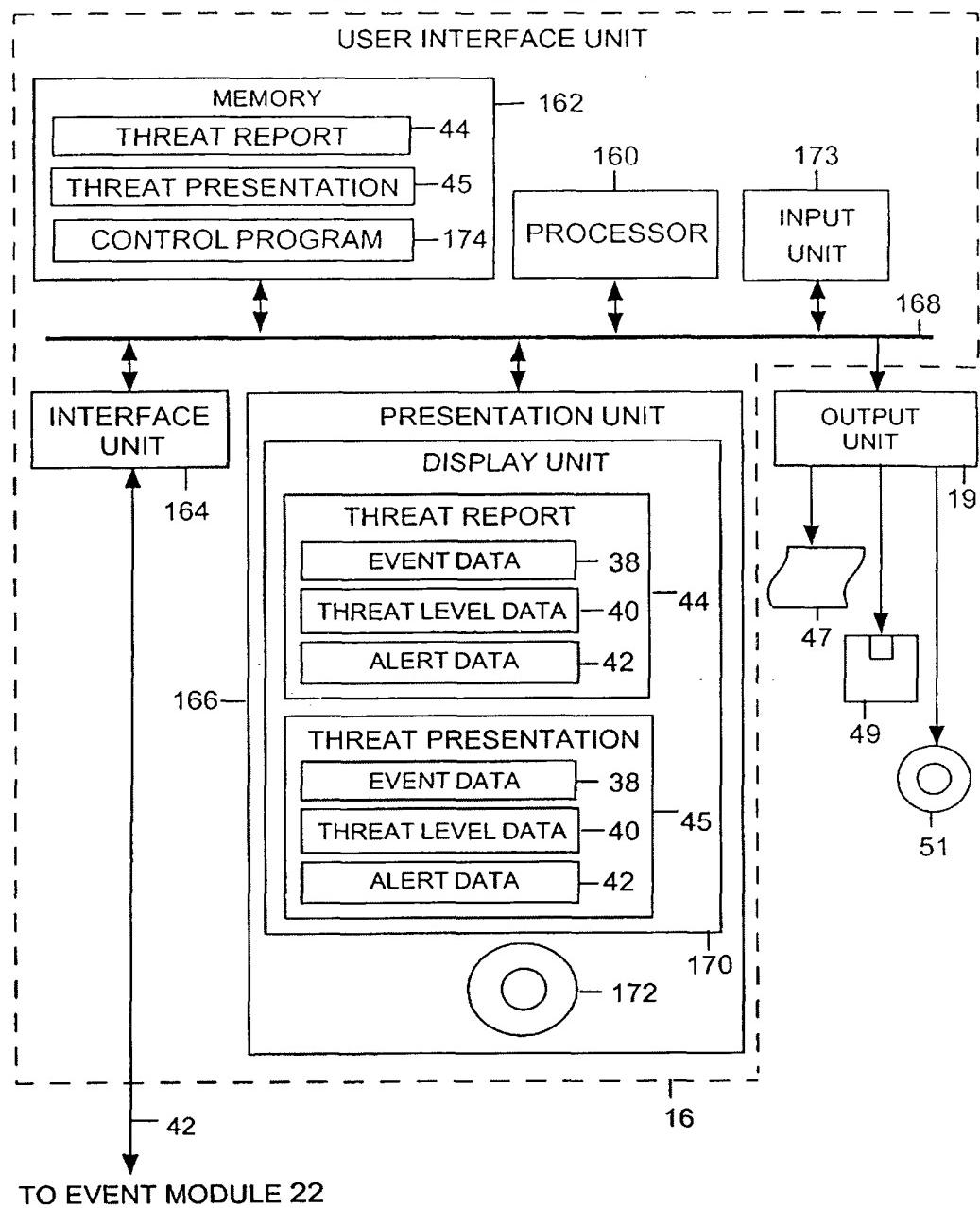
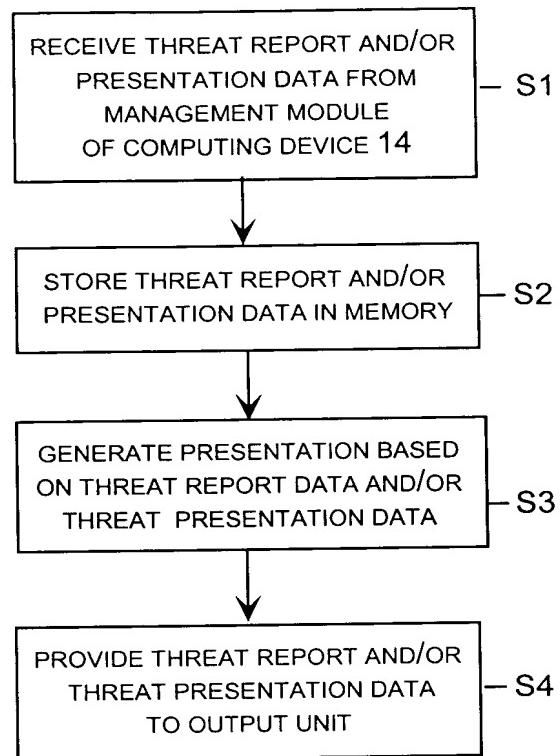


FIGURE 28

20/23

FIGURE 29

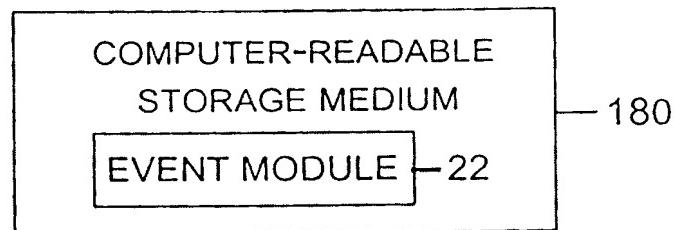


FIGURE 30

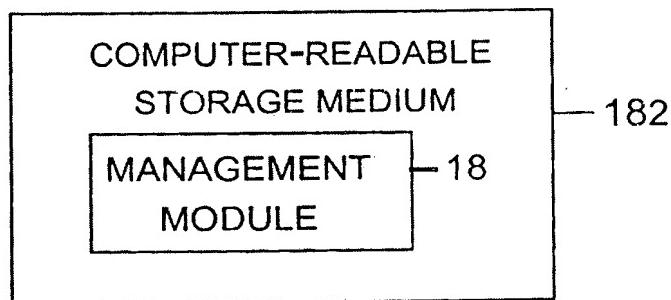
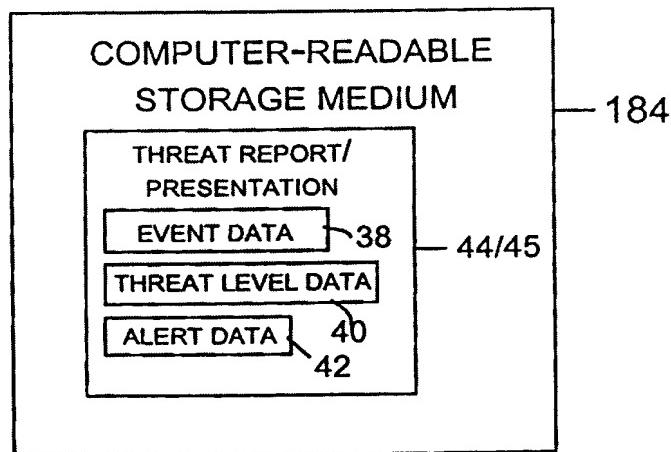


FIGURE 31



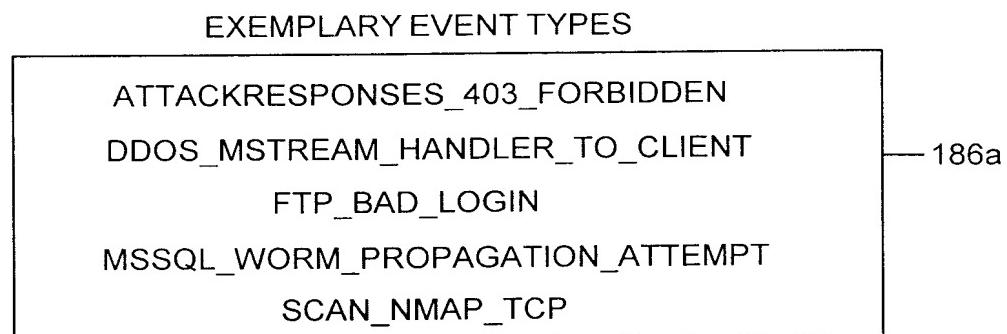


FIGURE 32A

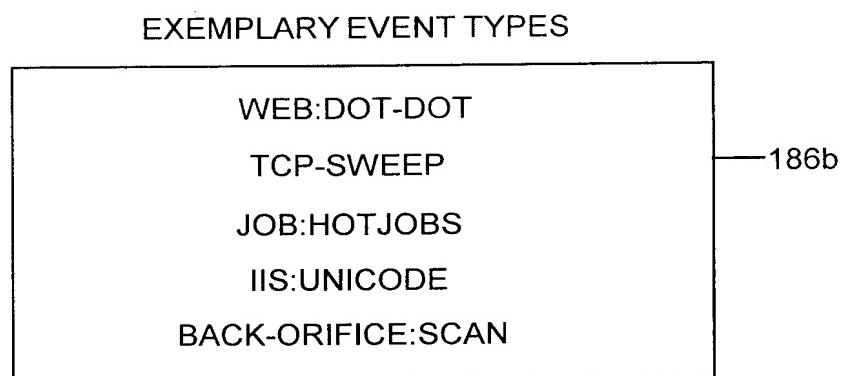


FIGURE 32B

22/23

CALCULATIONS

190 THREAT

$$T(H) = TW[H] * NB - TW[NB[H]]$$

192 SOURCE THREAT

$$ST(e) = T(e.src)$$

194 DESTINATION THREAT

$$DT(e) = T(e.dst)$$

196 VULNERABILITY

$$DT(e) = T(e.dst)$$

198 EVENT VALIDITY

$$EV(e) = VALIDITY[e.src][e.type]$$

200 EVENT SEVERITY

$$ES(e) = PRIORITY[e]$$

202 ATOMIC THREAT LEVEL

$$AT(e) = EV(e) * V(e) * ST(e) * ES(e)$$

204 HOST THREAT LEVEL

$$\delta(e, H, t) = \begin{cases} 1 & \text{if } (e.src = H \text{ or } e.dst = H) \\ 0 & \text{otherwise} \end{cases}$$

$$HT(H, t) = \frac{\sum_{i=1}^N AT(e_i) * \delta(e_i, H, t)}{\sum_{i=1}^N \delta(e_i, H, t)}$$

206 DIFFERENTIAL THREAT LEVEL

$$DTL(H, T_1, T_2) = \frac{HT(H, T_1)}{HT(H, T_2)} * \frac{T_2}{T_1} \quad \text{WHERE } 0 < T_1 < T_2$$

FIGURE 33

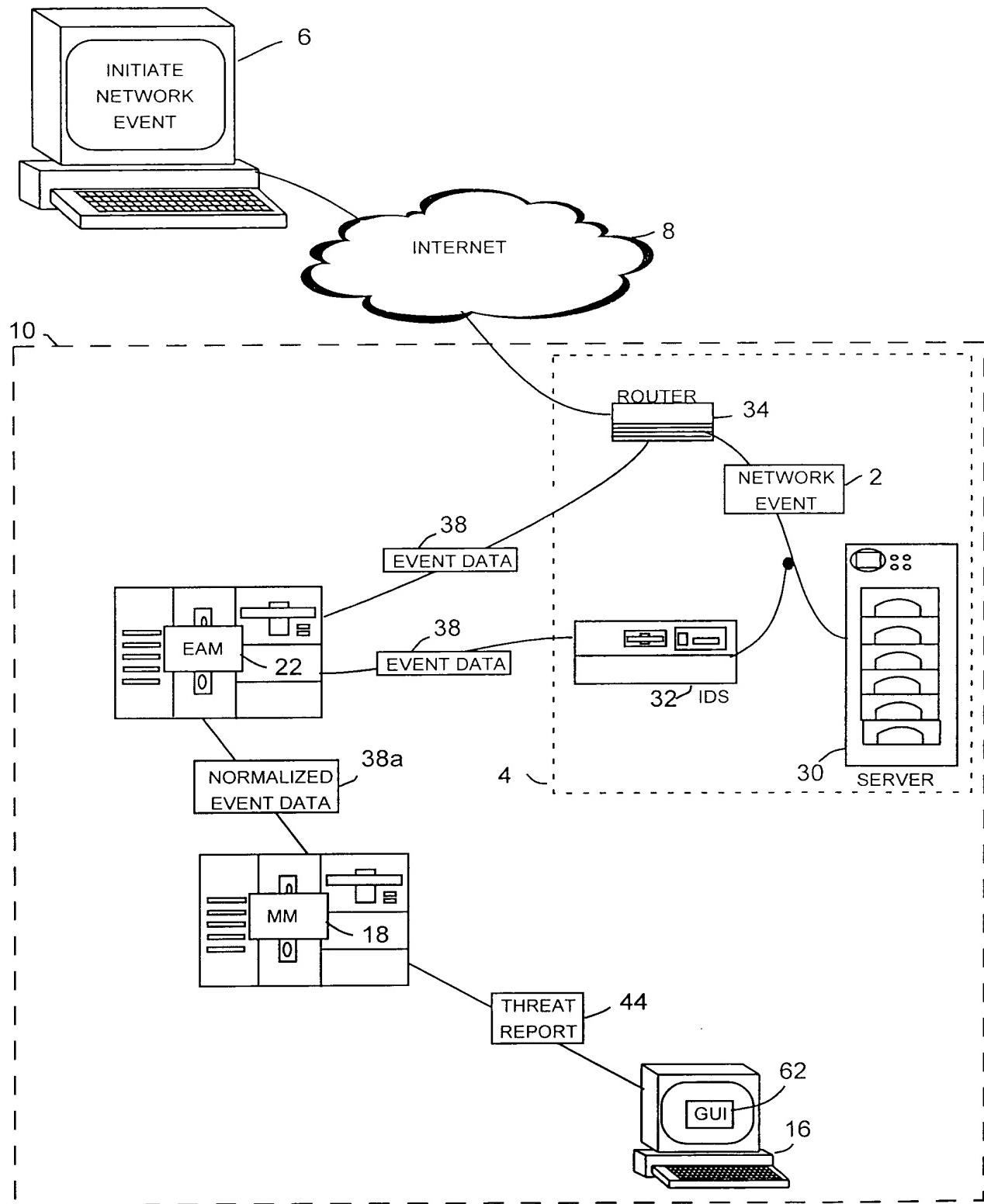


FIGURE 34